

*Cont
B1 C1
Cont*

2. The optical module according to claim 1, wherein the substrate includes a first base member and a second base member, the first base member being provided with the electric connection terminal, and the second base member having the planar main surface and being provided with the optical element and the slender light transmitter.

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C1
B2*

5. An optical module comprising:

a substrate having a planar main surface and a groove in the main surface of the substrate;

an electric connection terminal provided on the substrate;

a planer lightwave circuit provided on the main surface of the substrate, the planer lightwave circuit being connected with the electric connection terminal; and

an optical fiber partially provided in the groove and optically coupled with the planer lightwave circuit.

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C1
B3*

7. A combination comprising:

a connector connectable with an electric circuit board; and

an optical module including:

a substrate having a planar main surface and a groove in the main surface of the substrate;

an electric connection terminal provided on the substrate, the electric connection terminal electrically connectable with the connector;

an optical element provided on the main surface of the substrate, the optical element being connected with the electric connection terminal; and

one end of a slender light transmitter fixed in the groove and optically coupled with the optical element.